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TITLE : BRASS

ABSTRACT : PURPOSE: To obtain low-cost free-cutting brass for water feeding and draining apparatus with superior workability, mechanical strength and resistance to dezincification corrosion by adding specified amounts of Zn, Pb, Sn, Ni, Si, Fe and Al to Cu.

CONSTITUTION: In order to prevent the dezincification corrosion of an apparatus made of free-cutting brass used in waterworks due to residual chlorine in service water, the apparatus is made of a Cu alloy having a composition consisting of 66~71% Cu, 1.8~2.4% Pb, 0.5~1.3% Sn, 0.5~1.5% Ni, 0.6~1.2% Si, 0.2~0.5% Fe, 0.2~1.0% Al and the balance Zn. The Cu alloy has superior resistance to dezincification corrosion and brine, superior machinability and mechanical properties, and it is suitable for use as the material of water feeding and draining apparatus.

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